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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,624	07/16/2003	Hiroshi Tanaka	0505-1212P	7296	
2292	7590 11/19/2004		EXAM	EXAMINER	
	WART KOLASCH & B	HO, HA	HO, HA DINH		
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
	·		3681		
			DATE MAILED: 11/19/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner	F	Application No.	Applicant(s)					
Ha D. Ho  3881		10/619,624	TANAKA, HIROSHI	_				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Electrolises of time may be available under the provisions of 3 CFR 1.138(a). In no event, however, may a reply be timely filed  ### The period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  ### Fallow for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Fallow for perply within the act or exhered period for reply will be statutory period will apply and will expire SIX (6) MONTHS from the mailing date of the communication to become ABADONED (35 U.S.C, § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any examed plant turn adjunction.  ### Period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication, even if timely filed.  #### Responsive to communication(s) filed on ### 16 July 2003  #### Responsive to communication(s) filed on ### 16 July 2003  #### 2003  #### Responsive to communication(s) filed on ### 2003  #### 2015 Responsive to communication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  ### 213 Disposition of Claims  #### 2015 Interest in the provided provided to the provided provided to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  ### 213 Disposition of Claims  ### 2015 Interest in the provided provide	Office Action Summary	Examiner	Art Unit					
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THE MAILING DATE OF THIS COMMUNICATION.  Estate-lions of time may be variable under the provisions of 3 CFR 1.135(a). In no event, however, may a reply be timely filed after SN (e) MONTHS from the mailing date of this communication.  If the period for reply specified above, the rendrimum statutory period will apply and will expire SIX (e) MONTHS from the mailing date of this communication.  If the period for reply is specified above, the maximum statutory period will apply and will expire SIX (e) MONTHS from the mailing date of this communication. The provision of the control of the provision of the provi								
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<ul> <li>a)</li></ul>	y under 35 U.S.C. § 119		• .					
	<ul> <li>a)</li></ul>							
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 01/12/04.  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  Paper No(s)/Mail Date 01/12/04.	nent(s)  otice of References Cited (PTO-892)  otice of Draftsperson's Patent Drawing Review (PTO-948)  formation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4)  lnterview Summary ( Paper No(s)/Mail Da 5)  Notice of Informal Pa	(PTO-413) te					

Art Unit: 3681

### **DETAILED ACTION**

1. This is the first Office Action on the merits of Application No. 10/619,624 filed on 7/16/03. Claims 1-20 are currently pending.

## Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The abstract of the disclosure is objected to because of using the legal phraseology, i.e., "means" in lines 3, 5 and 7. Correction is required. See MPEP § 608.01(b).

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-4 and 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Kai (US 5,445,121).

Kai teaches a system comprising a clutch (see col. 7, line 2) intermediately provided between a crankshaft 24 of an engine 17 and a power transmission means 14, a rotation variation coefficient detection means (23, 41) for detecting the rotation variation coefficient of the crankshaft (e.g., engine speed N), a decision means 37 for deciding the connection/disconnection of the clutch by comparing the rotation variation coefficient N with a preliminarily determined threshold N2 which is set according to engine speed, a plurality of projections extending from a rotating disk 23, and a pulser 41 for detecting the rotation of the crankshaft.

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 5 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kai (US 5,445,121) in view of Ogawa et al. (US 4,931,940).

Kai does not show nine projections extending from the rotating disk.

Ogawa et al show a rotational position detector for an engine (see Fig. 7) having nine projections 2a extending from the rotating disk 2.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kai by providing nine projections extending from the rotating disk in view of Ogawa et al since the rotational position detector of Ogawa et al is improved in adaptability to

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high speed rotations and which can instantly discriminate abnormalities which might exist in the results of detection (col. 4, lines 29-35).

## Allowable Subject Matter

8. Claims 6-10 and 16-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Cited Prior Art

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: McKenzie'377, Reid et al.'670, Maeda et al.'405, Nagashima'375, Davies'963 and Nakamura et al.'359 which each shows an engine control system having means for detecting revolution of the crankshaft.

### Communication

10. Submission of your response by facsimile transmission is encouraged. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see M.P.E.P. 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission should include a

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Certificate of Transmission (M.P.E.P.. 512). The following is an example of the format the certification might take:

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If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and M.P.E.P.. 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Examiner Ho whose telephone number is (703) 305-0738. The examiner can normally be reached on Monday-Friday from 7:30 A.M. to 5:00 P.M. Eastern Standard Time. If attempts to reach the examiner by phone are unsuccessful, the examiner's supervisor, Mr. Charles Marmor, can be reached at (703) 308-0830. Any inquiry of a general nature or relating to the status of this application or proceeding should directed to the Group receptionist whose telephone number is (703) 308-2168.

HDH (703) 305-0738 November 17, 2004 HAHO PRIMARY EXAMINER

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11/17/04